

CURRICULUM VITAE

Dr. Spyridaki Athena

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PERSONAL INFORMATION

Name : Spyridaki Athena
Home Address : Polurrinias 19, Chania, 73100, Crete, Greece
Work Address : Technical Univ. of Crete, University Campus, Kounoupidiana 73100, Chania, Crete, Greece
Tel no : (++30)-6976100691
Date of Birth : 14/01/1972
Τόπος Γέννησης : Herakleion, Crete, Greece
Family Status : Single

ACADEMIC STUDIES

1989-1996 Bachelor's degree in Physics (Degree obtained: 7,94)
Dept. of Physics
Faculty of Science
Aristotle University of Thessaloniki
Thesis Title: «*Impact of Atmospheric Pollution on Solar Ultraviolet UV Radiation that Reaches the Earth's Surface*», Lab. of Atmospheric Physics (LAP)

1997-1999 MSc on "Environmental Physics"
Lab. of Atmospheric Physics (LAP)
Dept. of Physics
Faculty of Science
Aristotle University of Thessaloniki
Degree obtained: 9,16
Thesis Title: «*Quantification of Gasoline Evaporative Hydrocarbon Emissions, by Use of Gas Chromatography*»

03/1999-02/2005 PhD Thesis on Atmospheric Physics
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering
Technical University of Crete
Thesis Title: «*Mesoscale Investigations on Determining the Occurrence of Ozone and Fine Particles at the Mediterranean Area*»

06/2005-01/2007 Post Doctorate Research on Atmospheric Physics
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering

ACADEMIC – RELEVANT PROFESSIONAL EXPERIENCE

- 05/00-06/02 PhD Researcher, project “SUB-AERO”
Norwegian Institute for Air Research (NILU)
Atmosphere and Climate Change Department
Atmospheric physics and chemistry, PM and ozone dynamic processes in the Greek troposphere (special focus given on the region of Crete)
- 01/05/04-31/08/04 PhD Researcher, project “URBAN EXPOSURE”
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering
Technical University of Crete
Modelling of PM concentrations in the European atmosphere
- 02/03/04-01/05/04 PhD Researcher, project “NEPAP”
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering
Technical University of Crete
Modelling of PM concentrations in the atmosphere
- 01/10/03-28/02/04 PhD Researcher, project “NEPAP”
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering
Technical University of Crete
Atmospheric aerosol and impact on human health
- 01/10/02-30/09/03 PhD Researcher, project “URBAN EXPOSURE”
Laboratory of Atmospheric Aerosol
Dept. of Environmental Engineering
Technical University of Crete
Modelling of PM flow via the respiratory system
- 18/07/01-02/08/01 & 06/01/01-14/01/01 Participation in measurements on atmospheric aerosol (SUB-AERO project)
Finokalia, Crete, Greece
Norwegian Institute for Air Research (NILU)
- 11/97-04/98 Participation, during Postgraduate studies, in project for Global Ozone Mapping
Lab. of Atmospheric Physics (LAP)
Dept. of Physics
Faculty of Science
Aristotle University of Thessaloniki

TUTORIAL EXPERIENCE

- 01/09/02-28/02/03 &
01/09/03-29/02/04 &
01/09/04-28/02/05 &
01/09/05-28/02/06 Conduction of laboratory and tutorial exercises for the undergraduate course "*Air Quality Models*"
Laboratory of Atmospheric Aerosols
Dep. of Environmental Engineering
Technical University of Crete
- 01/03/03-31/08/03 &
01/03/04-31/08/04 &
01/03/05-31/08/06 Conduction of laboratory and tutorial exercises for the undergraduate course "*Environmental Meteorology – Climatology*"
Laboratory of Atmospheric Aerosols
Dep. of Environmental Engineering
Technical University of Crete
- 05/04 Conduction of a tutorial exercises seminar for the postgraduate course "*Environmental Meteorology – Climatology*"
Laboratory of Atmospheric Aerosols
Dep. of Environmental Engineering
Technical University of Crete
- 01/02/07-31/08/07 Conduction of laboratory exercises for the undergraduate course "*Toxic & Hazardous Waste Treatment and Management*"
Laboratory of Toxic and Hazardous Waste Management,
Dep. of Environmental Engineering,
Technical University of Crete
- 01/02/07-31/08/07 &
01/02/08-31/08/08 Conduction of laboratory and tutorial exercises for the undergraduate course "*Municipal Solid Waste Treatment and Management*"
Laboratory of Toxic and Hazardous Waste Management,
Dep. of Environmental Engineering,
Technical University of Crete
- 01/09/07-31/01/08 &
01/09/08-31/01/09 Conduction of tutorial exercises for the undergraduate course "*Design Of Transfer Stations And Sanitary Landfills For Municipal Solid Waste*"
Laboratory of Toxic and Hazardous Waste Management,
Dep. of Environmental Engineering,
Technical University of Crete
- 01/10/13-today Conduction of laboratory and tutorial exercises for the undergraduate Course "*Environmental Meteorology and Air Quality Models*"
Laboratory of Energy Management in the Built Environment,
Dep. of Environmental Engineering,
Technical University of Crete
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OTHER PROFESSIONAL EXPERIENCE

- 05/09/2006-09/2009 Laboratory Assistant
Dep. of Environmental Engineering, Management and Treatment of
Hazardous Waste
Technical University of Crete
- 09/2009-09/2011 Detachment at the University of Patras, Administration work
Dep. of Primary Education
School of Humanities and Social Sciences
- 09/2011-today Laboratory Assistant
Laboratory of Energy Management in the Built Environment
Dep. of Environmental Engineering
Technical University of Crete
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SCHOLARSHIPS - AWARDS

- 06/05-01/07 Pythagoras II – EU and Greek Ministry of National Education and Religious
Affairs (duration: 19 months)
Post Doctorate Research
Dep. of Environmental Engineering,
Technical University of Crete
- 08/00-08/01 Research Council of Norway (RCN) (duration: 13 months)
Research and conduction of PhD
NILU, Kjeller, Norway
- 05/00-07/00 & Norwegian Institute for Air Research (NILU) (duration: 12 months)
09/01-05/02 PhD Researcher
NILU, Kjeller, Norway
- 01/96-08/96 Dep. of Environmental Engineering (duration: 18 months)
PhD studies
Dep. of Environmental Engineering
Technical University of Crete
- 04/06/97-10/06/97 European Commission
Advanced Courses on “Interactions between Chemical Compounds, the
Ozone Layer and UV-B Fluxes (ICLU)”
Kruopigi, Halkidiki
- 01/96-07/96 ERASMUS (duration: 6 months)
Attenuation of undergraduate courses
Dep. of Physics
University of Barcelone

COMPUTER SKILLS

Programming languages: Fortran, Pascal, Quick Basic.

Computer Operating System: UNIX, PC-DOS-WINDOWS.

Software programs: Word, WP, Excel, Power Point, Origin, Grapher, Surfer.

LANGUAGE SKILLS

Greek : Native language.

English : Certificate of Proficiency in English, University of Cambridge.

Spanish : Very good.

Norwegian: Poor.

Portuguese: Poor/moderate.

PARTICIPATION IN SEMINARS/CONFERENCES/ADVANCED COURSES

01/08/08-03/08/08 Conference on "Hazardous Waste Management", Chania, Crete, Greece – Organizing Committee.

03/07/06-07/07/06 Conference on "Protection and Restoration of the Environment VIII", Chania, Crete, Greece.

08/09/03-10/09/03 "CEST: 8th Conference of Environmental Science and Technology", Lemnos Island, Greece.

09/02 International Conference on Atmospheric Chemistry within the Earth System. 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC).

01/12/01-22/12/01 "Aerosols, Cloud and Climate"
Postgraduate Course (attendance, additional course)
NORFA Network for Atmospheric Aerosols and Dynamics (NAD)
Dept. of Physics, Stockholm University, Sweden

08/10/01-09/10/01 NORFA Aerosol Symposium

Lund, Sweden

- 04/06/97-10/06/97 Interactions between Chemical Compounds, the Ozone Layer and UV-B Fluxes (ICLU) - Advanced Course
European Commission & Lab. of Atmospheric Physics (LAP), Dept. of Physics, Faculty of Science, Aristotle University of Thessaloniki
Kruopigi, Halkidiki
- 24/01/97-25/01/97 Seminar on "Current Issues of Global and Regional Environmental Concern" (duration: 15 hours)
British Council & Lab. of Atmospheric Physics (LAP), Dept. of Physics, Faculty of Science, Aristotle University of Thessaloniki
- 1995 Seminar on Computer Science (duration: 36 hours)
Union of Greek Physicists
Branch of Central and Western Macedonia

B. PUBLICATIONS

I. PUBLICATIONS IN REFEREED INTERNATIONAL JOURNALS & BOOK CHAPTERS & CONFERENCE PROCEEDINGS

A - REFEREED INTERNATIONAL JOURNALS

1. M. Lazaridis, **A. Spyridaki**, S. Solberg, G. Kallos, T. Svendby, F. Flatoy, I. Drossinos, C. Housiadas, J. Smolik, I. Colbeck, M. Varinou, F. Gofa, K. Eleftheriadis, V. Zdimal and P. G. Georgopoulos. *Modelling of combined aerosol and photooxidant processes in the Mediterranean area. Water Air and Soil Pollution – Focus*, 4, Numbers 4-5 (2004).
2. M. Lazaridis, **A. Spyridaki**, S. Solberg, J. Smolik, V. Zdimal, K. Eleftheriadis, V. Aleksaropoulou, O. Hov, P.G. Georgopoulos, *Mesoscale modeling of combined aerosol and photo-oxidant processes in the Eastern Mediterranean. Atmospheric Chemistry and Physics*, Vol. 5, 927-940 (2005).
3. M. Lazaridis, K. Eleftheriadis, J. Smolik, I. Colbeck, G. Kallos, Y. Drossinos, V. Zdimal, Z. Vecera, N. Mihalopoulos, P. Mikuska, C. Bryant, C. Housiadas, **A. Spyridaki**, M. Astitha, V. Havranek, *Dynamics of fine particles and photo-oxidants in the Eastern Mediterranean (SUB-AERO). Atmospheric Environment*, 40(32), 6214-6228 (2006).
4. **A. Spyridaki**, M. Lazaridis, K. Eleftheriadis, J. Smolik, N. Mihalopoulos and V. Aleksandropoulou, *Modelling and Evaluation of Size Resolved Aerosol Characteristics in the Eastern Mediterranean During the SUB-AERO Project. Atmospheric Environment* 40(32), 6261-6275 (2006).

B - BOOK CHAPTERS & CONFERENCE PROCEEDINGS

1. M. Lazaridis, Y. Drossinos, **A. Spiridaki**, E. Georgiadou and Gekas, V. *Sensitivity calculations of new particle formation parameterizations using a modal aerosol dynamics model. Journal of Aerosol Science* 31, 442-443 European Aerosol Conference, Dublin (2000).
2. Lazaridis, M., Kallos, G., **Spiridaki, A.**, Solberg, S., Svendby, T., Drossinos, Y., Housiadas, C., Smolik, J., Colbeck, I., Eleftheriadis, K., Gekas, V., Stordal, F. *Modelling of combined aerosol and photooxidant processes in the Mediterranean area. Journal of Aerosol Science* 32, 725-726. European Aerosol Conference, Leipzig (2001).
3. Lazaridis, M., Colbeck, I., Drossinos, Y., Eleftheriadis, K., Havranek, V., Housiadas, C., Kallos, G., Mihalopoulos, N., Mikuska, P., Smolik, J., Solberg, S., **Spiridaki, A.**, Stefanou, E., Stordal, F., Svendby, T., Vecera, Z., Zdimal V. *Subgrid scale investigations of factors determining the occurrence of ozone and fine particles. Journal of Aerosol Science* 32, 119-120. European Aerosol Conference, Leipzig (2001).
4. M. Lazaridis, G. Kallos, **A. Spiridaki**, S. Solberg, T. Svendby, F. Ffatøy, I. Drossinos, C. Housiadas, J. Smolik, I. Colbeck, K. Eleftheriadis, V. Zdimal. *Modelling of combined aerosol and photooxidant processes in the Mediterranean area. Sixth International Aerosol Conference Taipei, Taiwan, September 8-13 (2002).*
5. M. Lazaridis, **A. Spiridaki**, S. Solberg, T. Svendby, T. Svenby, G. Kallos, F. Flatoy, C. Housiadas, J. Smolik, I. Colbeck, K. Eleftheriadis. *Modeling of aerosol processes in the*

Mediterranean area. NATO Conference on Regional Atmospheric Modelling. Book by Kluwer Academic Press, Vol 30, 203-210 (2003).

6. M. Lazaridis, G. Kallos, **A. Spiridaki**, S. Solberg, T. Svendby, I. Drossinos, C. Housiadas, J. Smolik, I. Colbeck, K. Eleftheriadis and V. Gekas. *Modeling of combined aerosol and photooxidant dynamics in the Mediterranean area*. Proceedings of the International Conference "Protection and Restoration of the Environment VI" Volume II, page 1051-1056 (2002).
7. **A. Spiridaki** and M. Lazaridis. *Modelling study of fine aerosols and photo-oxidants during winter at the Mediterranean*. GNEST Conference, Limnos, Greece (2003).
8. M. Latos, **A. Spyridaki**, F. Flatoy and M. Lazaridis, *Contribution of Forest Fire Emissions in Atmospheric Pollutant Levels in the Eastern Mediterranean Area*. Conference "Protection and Restoration of the Environment VIII, 3-7 July 2006, Chania, Greece.

II. PUBLICATIONS IN REFEREED CONFERENCE PROCEEDINGS (ABSTRACT BASED)

1. Lazaridis, M., Colbeck, I., Drossinos, I., Eleftheriadis, K., Havranek, V., Housiadas, C., Kallos, G., Mihalopoulos, N., Mikuska, P., Mitsakou, C., Smolik, J., Solberg, S., **Spyridaki, A.**, Stefanou, E., Stordal, F., Svendby, T., Vardouki, H., Vecera, Z. and Zdimal, V. *Subgrid scale investigations of factors determining the occurrence of ozone and fine particles (SUB-AERO)*. Submitted to the 8th European Symposium on the Physico-Chemical Behaviour of Atmospheric Pollutants Torino (2001).
2. M. Lazaridis, I. Colbeck, I. Drossinos, K. Eleftheriadis, V. Havranek, C. Housiadas, G. Kallos, N. Mihalopoulos, P. Mikuska, C. Mitsakou, J. Smolik, S. Solberg, **A. Spiridaki**, T. Svendby, H. Vardouki, Z. Vecera and V. Zdimal. *Characterization of physical and chemical factors determining the occurrence of ozone and fine particles*. Proceedings. International Conference on Atmospheric Chemistry within the Earth System. 7th Scientific Conference of the International Global Atmospheric Chemistry Project (IGAC) (2002).